

CLAIMS

What is claimed is:

- 1 1. A method of executing a risk-assessment scan with a variable timeout
2 duration which is set based on network conditions, comprising:
3 a) measuring network conditions in a network coupled between a source and a
4 target;
5 b) executing a risk-assessment scan on the target from the source; and
6 c) performing a timeout prior to making a determination that the target is failing
7 to respond to the risk-assessment scan;
8 d) wherein the timeout includes a variable duration which is set as a function of
9 the measured network conditions.
- 1 2. The method as recited in claim 1, wherein the network conditions include
2 latency associated with communication between the source and the target.
- 1 3. The method as recited in claim 1, wherein measuring the network conditions
2 includes transmitting a probe signal from the source to the target utilizing the
3 network.
- 1 4. The method as recited in claim 3, wherein the probe signal prompts the target
2 to send a response signal to the source utilizing the network.
- 1 5. The method as recited in claim 4, wherein measuring the network conditions
2 further includes receiving the response signal from the target utilizing the
3 network.

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- 1 6. The method as recited in claim 5, wherein measuring the network conditions
2 further includes measuring a response duration between the transmission of
3 the probe signal and the receipt of the response signal.
- 1 7. The method as recited in claim 6, wherein the timeout is set as a function of
2 the response duration.
- 1 8. The method as recited in claim 1, wherein the timeout is set by adding a
2 default value with a variable value which is set as a function of the measured
3 network conditions.
- 1 9. The method as recited in claim 1, wherein the timeout is set by multiplying a
2 default value with a variable factor which is set as a function of the measured
3 network conditions.
- 1 10. The method as recited in claim 1, wherein executing the risk-assessment scan
2 includes executing a plurality of risk-assessment scan modules.
- 1 11. The method as recited in claim 10, wherein the timeout is performed for each
2 of the risk-assessment scan modules.
- 1 12. The method as recited in claim 1, and further comprising storing a result of
2 the measurement of the network conditions.
- 1 13. The method as recited in claim 1, and further comprising abandoning the
2 risk-assessment scan if the target fails to respond to the risk-assessment scan
3 within the variable duration.
- 1 14. A computer program product for executing a risk-assessment scan with a
2 variable timeout duration which is set based on network conditions,
3 comprising:

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- 4 a) computer code for measuring network conditions in a network coupled
5 between a source and a target;
6 b) computer code for executing a risk-assessment scan on the target from the
7 source; and
8 c) computer code for performing a timeout prior to making a determination that
9 the target is failing to respond to the risk-assessment scan;
10 d) wherein the timeout includes a variable duration which is set as a function of
11 the measured network conditions.
- 1 15. The computer program product as recited in claim 14, wherein the network
2 conditions include latency associated with communication between the
3 source and the target.
- 1 16. The computer program product as recited in claim 14, wherein measuring the
2 network conditions includes transmitting a probe signal from the source to
3 the target utilizing the network.
- 1 17. The computer program product as recited in claim 16, wherein the probe
2 signal prompts the target to send a response signal to the source utilizing the
3 network.
- 1 18. The computer program product as recited in claim 17, wherein measuring the
2 network conditions further includes receiving the response signal from the
3 target utilizing the network.
- 1 19. The computer program product as recited in claim 18, wherein measuring the
2 network conditions further includes measuring a response duration between
3 the transmission of the probe signal and the receipt of the response signal.
- 1 20. The computer program product as recited in claim 19, wherein the timeout is
2 set as a function of the response duration.

1 21. The computer program product as recited in claim 14, wherein the timeout is
2 set by adding a default value with a variable value which is set as a function
3 of the measured network conditions.

1 22. The computer program product as recited in claim 14, wherein the timeout is
2 set by multiplying a default value with a variable factor which is set as a
3 function of the measured network conditions.

1 23. The computer program product as recited in claim 14, wherein executing the
2 risk-assessment scan includes executing a plurality of risk-assessment scan
3 modules.

1 24. The computer program product as recited in claim 23, wherein the timeout is
2 performed for each of the risk-assessment scan modules.

1 25. The computer program product as recited in claim 14, and further comprising
2 computer code for storing a result of the measurement of the network
3 conditions.

1 26. The computer program product as recited in claim 14, and further comprising
2 computer code for abandoning the risk-assessment scan if the target fails to
3 respond to the risk-assessment scan within the variable duration.

1 27. The computer program product as recited in claim 14, wherein the network
2 conditions are measured for a network segment, and the measured network
3 conditions are used to set the timeout for a plurality of targets located on the
4 network segment.

1 28. A system for executing a risk-assessment scan with a variable timeout
2 duration which is set based on network conditions, comprising:

- 3 a) logic for measuring network conditions in a network coupled between a
4 source and a target;
- 5 b) logic for executing a risk-assessment scan on the target from the source; and
6 logic for performing a timeout prior to making a determination that the target
7 is failing to respond to the risk-assessment scan;
- 8 d) wherein the timeout includes a variable duration which is set as a function of
9 the measured network conditions.
- 1 29. A method of executing a risk-assessment scan with a variable timeout
2 duration which is set based on network conditions, comprising:
3 a) transmitting a probe signal from a source to a target utilizing a network, the
4 probe signal prompting the target to send a response signal to the source
5 utilizing the network;
- 6 b) receiving the response signal from the target utilizing the network;
- 7 c) measuring a response duration between the transmission of the probe signal
8 and the receipt of the response signal;
- 9 d) executing a risk-assessment scan including a plurality of risk-assessment
10 scan modules;
- 11 e) performing a timeout prior to making a determination that the target is failing
12 to respond to each of the risk-assessment scan modules, wherein the timeout
13 includes a variable duration which is set as a function of the response
14 duration; and
- 15 f) abandoning the risk-assessment scan modules if the target fails to respond to
16 the risk-assessment scan modules within the variable duration.
- 1 30. A computer program product for executing a risk-assessment scan with a
2 variable timeout duration which is set based on network conditions,
3 comprising:
4 a) computer code for transmitting a probe signal from a source to a target
5 utilizing a network, the probe signal prompting the target to send a response
6 signal to the source utilizing the network;

- 7 b) computer code for receiving the response signal from the target utilizing the
8 network;
- 9 c) computer code for measuring a response duration between the transmission
10 of the probe signal and the receipt of the response signal;
- 11 d) computer code for executing a risk-assessment scan including a plurality of
12 risk-assessment scan modules;
- 13 e) computer code for performing a timeout prior to making a determination that
14 the target is failing to respond to each of the risk-assessment scan modules,
15 wherein the timeout includes a variable duration which is set as a function of
16 the response duration; and
- 17 f) computer code for abandoning the risk-assessment scan modules if the target
18 fails to respond to the risk-assessment scan modules within the variable
19 duration.

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